

New process for the preparation of microparticles, useful e.g. for controlled drug release, comprises encapsulating active agent in biodegradable polymer under heating, cooling and milling in two stages to a fine powder

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Abstract of DE10061932

New process for the preparation of microparticles, based on biodegradable polymers (I) and containing active agents (A), comprises: (1) encapsulating (A) in amorphous or partially crystalline (I); (2) solidifying by cooling and pre-milling to give a coarse powder; and (3) jet milling to give a fine powder. New process for the preparation of microparticles, based on biodegradable polymers (I) and containing active agents (A), comprises: (a) encapsulating (A) in amorphous or partially crystalline (I), by mixing (A) and (I) while heating above the glass transition temperature of (I), so that (A) is dissolved or dispersed in (I); (b) solidifying by cooling and pre-milling to give a coarse powder of average particle size 300-500 micro m; and (c) jet milling to give a fine powder with particle size below 25 micro m. An Independent claim is also included for the microparticles prepared by the process.

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